Prof. Elisa Moretti, ph.D

Director of II level University Master Course in Process Modeling and Management for Healthcare - University of Perugia, academic year 2019/20 and 2020/21.

Coordinator of the Continuing Education Course in "Energy Efficiency and Sustainability of Public Administration: Opportunities, Tools, and Evaluation Methods" – University of Perugia, academic year 2023/2024

Personal information:
Born in Foligno (Italy) in 1976, March 18th.
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http://www.ing.unipg.it/en/areas/thermal-science-energy-tecnology-building-physics
http://orcid.org/0000-0002-6582-8752
https://scholar.google.it/citations?user=QGCfz_kAAAAJ&hl=it&oi=sra
https://www.researchgate.net/profile/Elisa_Moretti2

Current Academic Position (since 29.12.2017):
Associate professor of Environmental Applied Science (FISICA TECNICA AMBIENTALE: Building physics and building energy systems) at Department of Engineering, University of Perugia.

Main Research Interests and experiences:
- Sustainable Energy and circular economy;
- energy efficiency in buildings;
- dynamic thermal-energy performance of buildings;
- Renewable energies and HVAC systems;
- Innovative materials for buildings;
- thermal and lighting comfort;
- Acoustics properties of new materials;
- Process Modeling and Management for Healthcare.

Previous Work experiences:
2008-2017: Assistant professor at Department of Engineering, University of Perugia
2006-2008: Research assistant at Department of Engineering, University of Perugia
2002-2006: PhD candidate in Industrial Engineering at University of Perugia, Italy

Education:
2006: PhD in Industrial Engineering, Faculty of Engineering, University of Perugia (Italy)
2002: Degree in Environmental Engineering, University of Perugia (graduated magna cum laude)

Memberships:

Head of the Olfactometry Laboratory at the CRB, a section of CIRIAF (Mauro Felli Interuniversity Research Center on Pollution and the Environment) - UNIPG, since September 2023

Member of the Council of the University Language Center (C.L.A.) of the University of Perugia, three-year academic term 2023/2026.

Member of Council of the Energy and Sustainable Development PhD Course (University of Perugia)

Member of the Scientific Council of CISAFA, an Interinstitutional Center for Studies and Advanced Training in the Environment established by the University of Perugia and Arpa Umbria.

2010-2013: Executive board of CIRIAF (Inter-university Research Centre on Physical Agents Pollution

Scientific Council of CIRIAF

Consultancy firm TISS s.r.l., ex spin-off of University of Perugia

Research awards:

Sustainable Development Award 2024 - Green Building sector promoted by the Foundation for Sustainable Development at Ecomondo, November 7, 2024 for the project "ARPA Umbria as a virtuous example for the Public Administration: development of innovative solutions for energy efficiency, reduction of environmental impact and comfort in buildings, with particular reference to the role of occupants", developed by CIRIAF - University of Perugia with ARPA UMBRIA.

Best senior paper award at the International Scientific Conference “Environmental and Climate Technologies – CONECT 2016” Riga, Latvia for the paper “Advanced polycarbonate transparent systems with aerogel: preliminary characterization of optical and thermal properties” by E. Moretti, M. Zinzi, E. Carnielo, F. Merli.

International research projects:

- SONATA " Situation-aware OrchestratioN of AdapTive Architecture”, HORIZON-HLTH-2023-ENVHLTH-02 Grant Agreement n. 101137507.
- NRG2peers “Towards a new generation of EU peer-to-peer Energy Communities facilitated by a gamified platform and empowered by user-centred energy trading mechanisms and business models”, Horizon 2020 programme (grant agreement No. 890345).
- SWS Heating “evelopment and Validation of an Innovative Solar Compact Selective-Water-Sorbent-Based Heating System”, Horizon 2020 programme (G.A. n. 764025).
- Geofit,“Deployment of novel geothermal systems, technologies and tools for energy efficient building retrofitting” (Horizon 2020 programme, grant agreement No. 792210).
- IREXFO “Increase in Reduction and recovery of EXpired Food”, Progetto LIFE 16 ENV/IT/000547.
- MUSAE-Municipalities Subsidiarity for Actions on Energy”(funded LIFE+ European project)
- NADIA LIFE09 ENV/IT/102 “Noise Abatement Demonstrative and Innovative Actions and information to the public” (funded LIFE+ Project)
- CIVITAS RENAISSANCE: Testing Innovative Strategies For Clean Urban Transport For Historic European (funded within EU 7th Framework Programme).
- GREEN POST, Green Alternative Postal Vehicle Project (2007-2010, supported by Intelligent Energy Europe).

- Annex 65 “Long Term Performance of Super-Insulating Materials in Building Components and Systems”, working group IEA (International Energy Agency) (http://www.iea-ebc.org/projects/ongoing-projects/ebc-annex-65/)

National research projects:

- “SCENT” Sustainable CompositE materials for the construction iNdusTry, codice CUP J53D23015770001, PIANO NAZIONALE DI RIPRESA E RESILIENZA (PNRR) Missione 4 “Istruzione e Ricerca” - Componente C2 Investimento 1.1, “Fondo per il Programma Nazionale di Ricerca e Progetti di Rilevante Interesse Nazionale (PRIN)” - 30/11/2023-29/11/2025.
- “Le comunità energetiche rinnovabili e il ruolo della Pubblica Amministrazione nel processo di transizione energetica: studio delle barriere, dell’assetto giuridico e analisi di casi di studio”, Funded by ENEA, Progetto 1.5 PTR 2022-2024 della Ricerca Sistema Elettrico - 1.07.2023 -- 31/12/2024.
- “HEHS: High Efficency Hydrogen Storage”, codice CUP F19J22001830004, PNRR Investimento 3.5 “Ricerca e sviluppo sull’idrogeno”, previsto nella Missione 2 “Rivoluzione verde e transizione ecologica”, Componente 2 “Energia rinnovabile, idrogeno, rete e mobilità sostenibile”(M2C2-3.5)
- VITALITY - Innovation, digitalisation and sustainability for the diffused economy in Central Italy, PNRR (Decreto Direttoriale n. 3277 del 30 dicembre 2021), CUP J97G22000170005.
- NEXT.COM - The NEXT generation of multiphysics and multidomain environmental COMfort models: theory elaboration and validation experiment, Progetti di Rilevante Interesse Nazionale (PRIN), CUP: J56J20000700006, 16/09/2021-- 14/09/2023.
- Experimental and numerical characterization of glazing systems with monolithic aerogels for non-residential building (Funded by ENEA, Italy)
- SCER - Development of a new air conditioning system for buildings in urban crafts based on renewable energy sources (Funded by the Italian Ministry for Environment and Territory and Sea).
- GENIUS LOCI - The Role of the building sector on climate change”(funded by the Italian Ministry for Education and Research within the FISR funding Programme).
- Hydrogen from RES - Innovative systems for hydrogen production from Renewable Energy Sources (funded by the Italian Ministry for Education and Research within the FISR funding Programme)

Applied research activities for:

- CIRIAF (Inter-university Research Centre on Physical Agents Pollution, web-site: www.ciriaf.it)
- CRB (National Biomass Research Centre, Italy, www.crbnet.it)
- Italian Ministry for Environment and Territory and Sea
- Arpa Umbria
- APAT (National Agency for Environment Protection)
- Region of Umbria
- Municipality of Perugia, Gualdo Tadino, Assisi and Rome
- TAV -Ferrovie Dello Stato Italiane,
- Società Autostrada S.p.A
- consortium IPASS (Engineering for Environment and Sustainable Development, Italy, www.ipassnet.it)
- SSTAM (Scuola Superiore Territorio Ambientale Management)
- private companies (Takenaka corporation, IKEA Italy, Fail Spa, Cementerie Barbetti SpA, etc.)

Speaker at International and national Congresses:

- 39th National Congress AiCARR “Edifici e impianti per il clima futuro”, Napoli, 8 september 2023
- 38° National Congress AiCARR “Edifici e impianti per il clima futuro”, Milano, 29 June 2022

- 4th AIGE-IIETA International Conference and 13th AIGE Conference 2019, Matera.
- 12th Conference on Advanced Building Skins, 10-11 October 2016, Bern, Switzerland
- 8th International Conference on Sustainability in Energy and Buildings, Turin, Italy, September 2016
- National Congress " AIDI INTEGRAZIONE DI LUCE NATURALE E ARTIFICIALE", Perugia, Italy, 2016
- 33th National Congress AICARR - Comfort e risparmio energetico negli edifici esistenti: diagnosi, contabilizzazione, monitoraggio, building automation, BOLOGNA, Italy, 15 October 2015.
- 6th International Building Physics Conference (IBPC 2015), Turin, Italy. June, 14-17, 2015.
- 15th CIRIAF National Congress - Environmental Footprint and Sustainable Development. Perugia, Italy, 2015.
- "Think Green, Go Sustainable: Innovative Technology Networking Seminar", Congress at HKSTP (Hong Kong Science and Technology Parks), Hong Kong, 16/09/ 2014 and Shenzhen, 17 /09/2014
- 68th National Congress ATI "Energia, ambiente, macchine e impianti". Bologna, 11-13 September 2013.
- 25th International Conference on Efficiency, Cost, Optimization, Simulation And Environmental Impact Of Energy Systems, June 26-29, 2012, Perugia, Italy.
- ICAE - International Conference on Applied Energy, Perugia, Italy, 16-18 May 2011.
- 37th AIA National Congress, Siracusa, Italy, 26-28 May 2010.
- 10th CIRIAF National Congress, Perugia, Italy 9-10 April 2010.
- 38th International Congress And Exposition On Noise Control Engineering. Ottawa, Canada, 2009
- 36th AIA National Congress. Torino, Italy, 10-12 June 2009.
- 63th ATI National Congress, Palermo, Italy, September 2008.
- 8th CIRIAF National Congress, PERUGIA, Italy, April 2008.
- 62° ATI National Congress, Salerno, Italy, 11 – 14 September 2007.
- 34° AIA National Congress, Firenze, Italy 13-15 June 2007.
- 33° AIA National Congress, Ischia, Italy 10-12 maggio 2006.
- 6° CIRIAF National Congress, PERUGIA, Italy, 7-8 April 2006.
- 4° CIRIAF National Congress, Perugia, Italy, 2-3 April 2004.
- 58° ATI National Congress, Padova e San Martino di Castrozza, Italy, 8-12 September 2003

She has participated as a speaker in numerous study days and seminars.

Chairman at International and national Congresses:

- Chairman at 12th Conference on Advanced Building Skins, 10-11 October 2016, Bern, Switzerland

Teaching Experience:

He has been teaching at the University of Perugia since the 2007-2008 academic year.

- Teacher of TECHNOLOGIES FOR ENERGY EFFICIENCY IN BUILDING) in the Bachelor's Degree Course L083 Digital Techniques for the sustainable management of buildings, the environment, and the territory, from the 2025/26 academic year.
- Teacher of ENERGY TECHNOLOGIES AND BIOTECHNOLOGICAL SYSTEMS in the Master's Degree Course in Molecular and Industrial Biotechnologies, from the 2025/26 academic year.
- Teacher of the courses Energy efficiency interventions for public administration and best practices (6 hours); Opportunities, incentive tools, and economic analysis of intervention strategies (3 hours); New energy sharing models: widespread self-consumption and renewable energy communities (2 hours) in e Continuing Education Course in "Energy Efficiency and Sustainability of Public Administration: Opportunities, Tools, and Evaluation Methods" , academic year 2024/2025

- Teacher of Energy Efficiency Interventions for Public Administration and Best Practices (6 hours) and New Energy Sharing Models: Widespread Self-Consumption and Renewable Energy Communities (2 hours) in the Continuing Education Course in "Energy Efficiency and Sustainability of Public Administration: Opportunities, Tools, and Evaluation Methods" – academic year 2023/2024
- Teacher of BIOTECHNOLOGICAL PLANTS (6 credits) in the Master's Degree in Molecular and Industrial Biotechnologies, from academic year 2023/24 to academic year 2024/25.
- Teacher of Energy SYSTEMS module (2 credits), within the TECHNOLOGIES FOR ENERGY EFFICIENCY OF BUILDINGS course (lecturer in charge) in the Bachelor's Degree Course L083 - DIGITAL TECHNIQUES FOR THE SUSTAINABLE MANAGEMENT OF BUILDINGS, THE ENVIRONMENT AND THE TERRITORY, from the 2022/23 to the 2024/25 academic year.
- Teacher of ENERGY SYSTEMS AND ENVIRONMENTAL ASSESSMENT (5 credits), Master's Degree Course in Safety Engineering for the Territory and Built Environment, from the 2020/2021 academic year.
- Teacher of the BUILDING ENERGY PERFORMANCE, HVAC SYSTEMS AND RENEWABLE ENERGY PLANTS in the Master's Degree in Environmental and Land Engineering, starting from the 2021/22 academic year.
- Teacher of the HEALTHCARE SYSTEMS (12 hours) and ENVIRONMENTAL SUSTAINABILITY (3 hours) courses in the Master's Degree in Healthcare Process Management, academic years 2019/20 and 20/21.
- Teacher of the ENERGY SYSTEMS AND ENVIRONMENTAL SAFETY course (5 credits), Master's Degree in Land and Building Protection and Safety, academic year 2020/21. 2018/2019 and 2019/2020.
- Teacher of Impianti Tecnici (Energy plants: conventional sources plants and renewable energy plants) at University of Perugia. Master Degree in Environmental Engineering. Academic Year: 2015/16; 2016/17; 2017/18.
- Teacher of Conventional sources energy plants, Master Degree in Environmental Engineering. Academic Year: 2012/13; 2013/14; 2014/15.
- Teacher of Renewable energy plants, Master Degree in Environmental Engineering. Academic Year: 2010/11; 2011/12
- Teacher of HVAC Systems, Master Degree in Building Engineering. Academic Year: 2009/10; 2010/11; 2011/12.
- Teacher of " Acoustics and Lighting Techniques ",Degree in Industrial Engineering. University of Perugia. Academic Year: 2008/09.
- 2006: Teacher of Environmental acoustics and HVAC systems in private courses and master (University of Perugia, Master in Environmental Acoustics).
- Since 2006, he has been teaching for training institutions and companies.

Thesis advisor experience:

Master Degree or PhD thesis Advisor at University of Perugia.

Activity as referee

International Journals

▪ Elsevier	Energy and Buildings Applied Energy Building and Environment Applied Acoustics Applied Thermal Engineering Solar Energy Energy Construction & Building Materials Journal of non-crystalline solids Composites Part A: Applied Science and Manufacturing Materials and Design Journal of Building Engineering
▪ Springer	Building Simulation Energy Efficiency
▪ MDPI	Sustainability Energies Buildings Sensors Applied sciences Gels
▪ SAGE Journals	Indoor and built environment
▪ ASTM journals);	Journal of Testing and Evaluation
▪ ScienceDomain International	Advances in research

Publications:

Author of over 100 scientific papers about energy saving in buildings, acoustics, thermal and lighting comfort in Journal, Conference Proceedings and Books(http://orcid.org/0000-0002-6582-8752).

BIBLIOMETRIC INDICATORS:

Scopus: h-index 29 cit. 2280, 59 articles

Perugia, October 5 th 2025

Annex A –Publications

International Journals

1) **Moretti, E.** , Sciurpi, F., Proietti, M.G., Fiore, M. *A Multidisciplinary Approach to the Evaluation of Air Quality and Thermo-Hygrometric Conditions for the Conservation of Heritage Manuscripts and Printed Materials in Historic Buildings: A Case Study of the Sala del Dottorato of the University of Perugia as a Model for Heritage Preservation and Occupants' Comfort.* Applied Sciences (Switzerland), 2024, 14(12), 5356

2) Moretti, E.; Stamponi, E. *The Renewable Energy Communities in Italy and the Role of Public Administrations: The Experience of the Municipality of Assisi between Challenges and Opportunities*. Sustainability 2023, 15, 11869. https://doi.org/10.3390/su151511869

3) Di Capua S.E., Paolotti L., **Moretti E.,** Rocchi L., Boggia. *Evaluation of the Environmental Sustainability of Hemp as a Building Material, through Life Cycle Assessmen*t. Environmental and Climate Technologies, Volume 25, Issue 1, Pages 1215 – 12281, 2021.

4) E. Belloni, C. Buratti, F. Merli, **E. Moretti**, T. Ihara (2021). Thermal-energy and lighting performance of aerogel glazings with hollow silica: Field experimental study and dynamic simulations. ENERGY AND BUILDINGS, vol. 243, ISSN: 0378-7788, doi: https://doi.org/10.1016/j.enbuild.2021.110999

5) Piselli, C.; Romanelli, J.; Di Grazia, M.; Gavagni, A.; **Moretti, E**.; Nicolini, A.; Cotana, F.; Strangis, F.; Witte, H.J.L.; Pisello, A.L. *An Integrated HBIM Simulation Approach for Energy Retrofit of Historical Buildings Implemented in a Case Study of a Medieval Fortress in Italy*. Energies 2020, 13, 2601.

6) C. Buratti, **E. Moretti**, E. Belloni, M. Zinzi. *Experimental and numerical energy assessment of a monolithic aerogel glazing unit for building applications.* Applied Sciences 9 (2019), Article number 5473.

7) **E. Moretti,** E. Belloni, F. Merli, M. Zinzi, C. Buratti. *Laboratory and pilot scale characterization of granular aerogel glazing systems*, Energy and Buildings 202 (2019).

8) M. Zinzi, G. Rossi, A.M. Anderson, M.K. Carroll, **E. Moretti,** C. Buratti. *Optical and visual experimental characterization of a glazing system with monolithic silica aerogel*. Solar Energy 183 (2019): 30-39. DOI: 10.1016/j.solener.2019.03.013

9) C. Buratti, D. Palladino, **E. Moretti**, R. Di Palma. *Development and optimization of a new ventilated brick wall: CFD analysis and experimental validation*. Energy and Buildings 168 (2018). 284-297, doi: https://doi.org/10.1016/j.enbuild.2018.03.041

10) **E. Moretti**, M. Zinzi, F. Merli, C. Buratti. *Optical, thermal, and energy performance of advanced polycarbonate systems with granular aerogel*. Energy and Buildings 166 (2018). 407-417, ISSN: 0378-7788, doi: 10.1016/j.enbuild.2018.01.057

11) C. Buratti, F. Merli, **E. Moretti**. *Aerogel-based materials for building applications: Influence of granule size on thermal and acoustic performance*. Energy and Buildings 152 (2017): 472-482.

12) C. Buratti, F. Merli, **E. Moretti**. *Prediction of Indoor Conditions and Thermal Comfort Using CFD Simulations: A Case Study Based on Experimental Data.* Energy Procedia 126 (2017): 115-122.

13) **E. Moretti,** M. Zinzi, E. Carnielo, F. Merli. *Advanced polycarbonate transparent systems with aerogel: preliminary characterization of optical and thermal properties*. Energy Procedia 113 (2017): 9–16. DOI: https://doi.org/10.1016/j.egypro.2017.04.003.

14) **E. Moretti**, F. Merli, E. Cuce, C. Buratti. *Thermal and acoustic properties of aerogels: preliminary investigation of the influence of granule size.* Energy Procedia 111 (2017): 472-480.

15) C. Buratti, **E. Moretti**, M. Zinzi. *High Energy-Efficient Windows with Silica Aerogel for Building Refurbishment: Experimental Characterization and Preliminary Simulations in Different Climate Conditions.* Buildings 2017, 7, 8. doi:10.3390/buildings7010008

16) **E. Moretti**, M. Barbanera, D. Foschini, C. Buratti, F. Cotana. *Energy And Environmental Performance Analysis Of Biomass fueled Combined Cooling And Heating System For Commercial Building Retrofit: An Italian Case Study.* Energy Procedia 101 (2016): 376 – 383. DOI: http://dx.doi.org/10.1016/j.egypro.2016.11.048

17) E. Bonamente, **E**. **Moretti**, C. Buratti, F. Cotana (2016). *Design and monitoring of an innovative geothermal system including an underground heat-storage tank*, International Journal of Green Energy 13, pp 822-830. DOI:10.1080/15435075.2016.1161630

18) **E. Moretti**, E. Belloni, F. Agosti (2016). *Innovative mineral fiber insulation panels for buildings: Thermal and acoustic characterization*. Applied Energy 169; 421-432. doi:10.1016/j.apenergy.2016.02.048.

19) A. Borri, M. Corradi. R. Sisti C. Buratti, E. Belloni, **E. Moretti** (2016). *Masonry wall panels retrofitted with thermal-insulating GFRP-reinforced jacketing*. Materials and Structures. 49: 3957-3968. DOI 10.1617/s11527-015-0766-4.

20) C. Buratti, E. Belloni, **E. Moretti**, D. Palladino, M. Vergoni (2015). *Thermal behaviour and energy saving evaluation of innovative reinforced coatings. Energy Procedia 82, pp. 480-485. 10.1016/j.egypro.2015.11.848.*

21) **E. Moretti**, E. Belloni, E. Lascaro (2015). *The influence of solar control films on energy and daylighting performance by means of experimental data and preliminary unsteady simulations*. Energy Procedia 78, pp. 340-345. DOI: 10.1016/j.egypro.2015.11.660.

22) C. Buratti, **E. Moretti**, E. Belloni, F. Agosti (2015). *Thermal and acoustic performance evaluation of new basalt fiber insulation panels for buildings*. Energy Procedia 78, pp. 303-308. DOI: 10.1016/j.egypro.2015.11.648.

23) **E. Moretti**, E. Belloni. *Evaluation of energy, thermal, and daylighting performance of solar control films for a case study in moderate climate.* Building and Environment (2015), volume 94, pp. 183-195. DOI information: 10.1016/j.buildenv.2015.07.031

24) F. Cotana, A. L. Pisello, **E. Moretti**, C. Buratti. *Multipurpose characterization of glazing systems with silica aerogel: in-field experimental analysis of thermal-energy, lighting and acoustic performance.* Building and Environment 2014, vol. 81, 92-102. DOI: 10.1016/j.buildenv.2014.06.014.

25) C. Buratti, **E. Moretti**, E. Belloni, F. Agosti. *Development of Innovative Aerogel Based Plasters: Preliminary Thermal and Acoustic Performance Evaluation* Sustainability 2014, 6(9), 5839-5852; DOI:10.3390/su6095839.

26) **E. Moretti**, M. Zinzi, E. Belloni (2014). *Polycarbonate panels for buildings: experimental investigation of thermal and optical performance*. Energy & Buildings 2014, vol. 70, 23-35. DOI: 10.1016/j.enbuild.2013.11.045.

27) F. Cotana, A. Petrozzi, A. L. Pisello, V. Coccia, G. Cavalaglio, **E. Moretti** (2014). *An innovative small sized anaerobic digester integrated in historic building*. Energy Procedia 2014, vol. 45, 333-341.

28) C. Buratti, E. Belloni, **E. Moretti** (2014). *Façade noise abatement prediction: New spectrum adaptation terms measured in field in different road and railway traffic conditions.* Applied Acoustics 2014, vol. 76, 238–248. DOI: http://dx.doi.org/10.1016/j.apacoust.2013.08.016.

29) F. Asdrubali, C. Buratti, F. Cotana, G. Baldinelli, M. Goretti, **E. Moretti**, C. Baldassarri, E. Belloni, F. Bianchi, A. Rotili, M. Vergoni, D. Palladino, D. Bevilacqua (2013). *Evaluation of Green Buildings' Overall Performance through in Situ Monitoring and Simulations.* Energies 2013, vol. 6 (12), 6525-6547. doi:10.3390/en6126525.

30) **E. Moretti**, E. Bonamente, C. Buratti, F. Cotana. *Development of Innovative Heating and Cooling Systems Using Renewable Energy Sources for Non-Residential Buildings*. Energies 2013, vol. 6(10), 5114-5129. Special Issue "Energy Efficient Building Design 2013". Doi: http://dx.doi.org/10.3390/en6105114.

31) F. Asdrubali, C. Buratti, **E. Moretti**, F. D'Alessandro, S. Schiavoni (2013). *Assessment of the Performance of Road Markings in Urban Areas: The Outcomes of the CIVITAS RENAISSANCE Project.* The Open Transportation Journal 2013, vol. 7, 7-19. Available at: http://www.benthamscience.com/open/totj/article/V007/7TOTJ.pdf.

32) C. Buratti, L. Barelli, **E. Moretti** (2013). *Wooden windows: Sound insulation evaluation by means of artificial neural networks*, Applied Acoustics 2013, vol. 74(5), 740–745. doi: http://dx.doi.org/10.1016/j.apacoust.2012.12.001

33) C. Buratti, **E. Moretti**, E. Belloni, F. Cotana (2013). *Unsteady simulation of energy performance and thermal comfort in non-residential buildings*. Building and Environment 2013, vol. 59, 482–491, doi: http://dx.doi.org/10.1016/j.buildenv.2012.09.015

34) L. Barelli, G. Bidini, F. Bonucci, **E. Moretti**. *The radiation factor computation of energy systems by means of vibration and noise measurements: the case study of a cogenerative internal combustion engine*. Applied Energy 2012, vol. 100, 258–266. ISSN: 0306-2619. http://dx.doi.org/10.1016/j.apenergy.2012.05.057.

35) C. Buratti, L. Barelli, **E. Moretti** (2012). *Application of artificial neural network to predict thermal transmittance of wooden windows.* Applied Energy 2012, vol. 98, 425 – 432. DOI: http://dx.doi.org/10.1016/j.apenergy.2012.04.004

36) C. Buratti , **E. Moretti** (2012). *Glazing systems with silica aerogel for energy savings in buildings.* Applied Energy 2012, vol. 98, 396 – 403, DOI: http://dx.doi.org/10.1016/j.apenergy.2012.03.062.

37) C. Buratti, **E. Moretti** (2012). *Experimental performance evaluation of aerogel glazing systems*. Applied Energy 2012, vol. 97, 430 – 437. DOI: http://dx.doi.org/10.1016/j.apenergy.2011.12.055.

38) C. Buratti, **E. Moretti** (2011). *Lighting and energetic characteristics of transparent insulating materials: experimental data and calculation.* Indoor and Built Environment 2011, vol. 20 (4), 400–411. doi: 10.1177/1420326X11409470.

39) C. Buratti, R. Mariani, **E. Moretti** (2011). *Mean age of air in a naturally ventilated office: Experimental data and simulations*. Energy and Buildings 2011, vol. 43, 2021 – 2027. ISSN 0378-7788. DOI: http://dx.doi.org/10.1016/j.enbuild.2011.04.01

40) C. Buratti, **E. Moretti** (2010). *Traffic Noise Pollution: Spectra Characteristics and Windows Sound Insulation in Laboratory and Field Measurements*. Journal of Environmental Science and Engineering 2010, vol.4 (12), 28-36. ISSN 1934-8932. Available at: http://www.davidpublishing.com/davidpublishing/Upfile/11/21/2012/2012112170749289.pdf

Books chapters

1. Buratti, C., Belloni, E., Merli, F., & Moretti, E. (2019). Acoustic performance of translucent aerogel-based materials. In: Translucent silica aerogel: Properties, preparation and applications (pp. 131-160). Nova Science Publishers, Inc. ISBN: 978-153615330-9
2. C. Buratti, E. Moretti, E. Belloni (2016) Chapter 2 - Aerogel plasters for energy building efficiency. In: F. Pacheco Torgal, C. Buratti, S. Kalaiselvam, C.-G. Granqvist, V. Ivanov. Eds. Nano and biotech based materials for energy building efficiency. ISBN 978-3-319-27503-1. Springer 2016. DOI: 10.1007/978-3-319-27505-5_2
3. C. Buratti, E. Moretti, E. Belloni (2016) Chapter 3 - Nanogel windows for energy building efficiency. In: F.Pacheco Torgal, Cinzia Buratti, S. Kalaiselvam, Claes-Goran Granqvist, Volodymyr Ivanov. Eds. Nano and biotech based materials for energy building efficiency. ISBN 978-3-319-27503-1. Springer 2016. DOI:10.1007/978-3-319-27505-5_3
4. C. Buratti, E. Moretti (2013). Chapter 10 - Silica nanogel for energy-efficient windows. In: F. Pacheco-Torgal, M. V. Diamanti, A. Nazari and C.G. Granqvist. Nanotechnology in eco-efficient construction. p. 207-235, Cambridge: Woodhead Publishing Limited, ISBN: 9780857095442, DOI: 10.1533/9780857098832.2.207
5. C. Buratti, E. Moretti (2013). Chapter 20 - Nanogel windows. In: F. Pacheco Torgal, M. Mistretta, A. Kaklauskas, C.G. Granqvist, L.F. Cabeza. Nearly zero energy building refurbishment. A Multidisciplinary Approach. p. 555-582, Londra: Springer-Verlag , ISBN: 9781447155225, DOI: 10.1007/978-1-4471-5523-2_20

National journals

1. M.G. Proietti, E. Moretti. Il ruolo dell'occupante nella valutazione del benessere e delle azioni di efficientamento energetico: il caso di studio ARPA UMBRIA. Aicarr Journal n. 81, settembre 2023, pp. 42-47. Editore Quine, ISSN. 2038-2723
2. E Moretti, L Nassuato, GP Bordoni, Development of Regression Models to Predict Energy Consumption in Industrial Sites: The Case Study of a Manufacturing Company in the Central Italy. TECNICA ITALIANA-Italian Journal of Engineering Science. Journal homepage: http://iieta. org/Journals/TI-IJES 63 (2-4), 343-348
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